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☐ 1. Document ID: WO 9915652 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 4

File: EPAB

COUNTRY

Apr 1, 1999

PUB-NO: WO009915652A1

DOCUMENT-IDENTIFIER: WO 9915652 A1

TITLE: MEGSIN PROTEIN

PUBN-DATE: April 1, 1999

INVENTOR-INFORMATION:

NAME

MIYATA, TOSHIO JP

INT-CL (IPC): C12 N 15/12; C12 P 21/02; C12 N 1/21; C07 K 14/47; C07 K 16/18; G01 N

33/53; A01 K 67/027; C12 P 21/08

EUR-CL (EPC): C07K014/47

Full Title Citation Front Review Classification Date Reference State Classification Draw. De

2. Document ID: US 20040062274 A1, WO 200031996 A2, AU 200020123 A, BR 9915652 A, EP 1133886 A2, KR 2001080562 A, TW 444460 A, ZA 200103992 A, CN 1333981 A, MX 2001005147 A1, JP 2002531026 W, AU 766016 B, AU 2003231679 A1

L1: Entry 2 of 4

File: DWPI

Apr 1, 2004

DERWENT-ACC-NO: 2000-542966

DERWENT-WEEK: 200425

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TITLE: Discontinuous data transmission method for mobile communication adaptive multi rate system, involves transmitting silent descriptor frames between system

components based on detected period of source data inactivity

INVENTOR: BLOCHER, P; BRUHN, S; HAKANSSON, S; HELLWIG, K; BLOECHER, P

PRIORITY-DATA: 1999US-0444368 (November 22, 1999), 1998US-109694P (November 24, 1998), 2003AU-0231679 (August 7, 2003), 2003US-0676342 (October 1, 2003)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

<u>US 20</u>040062274 A1 April 1, 2004 000 H04J003/16

KR 2001030648 A, AU 200227633 A

L1: Entry 4 of 4

File: DWPI

Aug 20, 2002

DERWENT-ACC-NO: 1999-276983

DERWENT-WEEK: 200258

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TITLE: Megsin protein expressed specifically in mesangial cells

INVENTOR: MIYATA, T

PRIORITY-DATA: 1997JP-0275302 (September 22, 1997), 2002AU-0027633 (March 25, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000512944 X	August 20, 2002		000	C12N015/09
WO 9915652 A1	April 1, 1999	J	100	C12N015/12
AU 9890963 A	April 12, 1999		000	
EP 1018551 A1	July 12, 2000	E	000	C12N015/12
KR 2001030648 A	April 16, 2001		000	C07K014/00
AU 200227633 A	May 16, 2002		000	A01K067/027

INT-CL (IPC): A01 K 67/027; C07 K 14/00; C07 K 14/47; C07 K 16/18; C12 N 1/21; C12 N 15/09; C12 N 15/12; C12 P 21/02; C12 P 21/08; G01 N 33/53

II Title Citation Front Review	Classification Date Reference State Compact State Claims KWC Dra
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Terms	Documents
9915652	

Display Format: - Change Format

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WO 200031996 A2	June 2, 2000	E	056	H04Q007/30
AU 200020123 A	June 13, 2000		000	
BR 9915652 A	August 7, 2001		000	H04Q007/30
EP 1133886 A2	September 19, 2001	E	000	H04Q007/30
KR 2001080562 A	August 22, 2001		000	H04B014/04
TW 444460 A	July 1, 2001		000	H04L012/00
ZA 200103992 A	February 27, 2002		065	H04Q000/00
CN 1333981 A	January 30, 2002		000	H04Q007/30
MX 2001005147 A1	August 1, 2001		000	H04Q007/30
JP 2002531026 W	September 17, 2002		054	H04J003/00
AU 766016 B	October 9, 2003		000	H04Q007/30
<u>AU 2003231679 A1</u>	September 11, 2003		000	H04Q007/30

INT-CL (IPC): $\underline{\text{G10}}$ $\underline{\text{L}}$ $\underline{\text{11}}/\underline{\text{02}}$; $\underline{\text{G10}}$ $\underline{\text{L}}$ $\underline{\text{19}}/\underline{\text{00}}$; $\underline{\text{H04}}$ $\underline{\text{B}}$ $\underline{\text{14}}/\underline{\text{04}}$; $\underline{\text{H04}}$ $\underline{\text{J}}$ $\underline{\text{3}}/\underline{\text{00}}$; $\underline{\text{H04}}$ $\underline{\text{J}}$ $\underline{\text{3}}/\underline{\text{16}}$; $\underline{\text{H04}}$ $\underline{\text{L}}$ $\underline{\text{12}}/\underline{\text{00}}$; $\underline{\text{H04}}$ $\underline{\text{Q}}$ $\underline{\text{0}}/\underline{\text{00}}$; $\underline{\text{H04}}$ $\underline{\text{Q}}$ $\underline{\text{7}}/\underline{\text{30}}$

Full	Citation	Review		Reference	Claims	Draw, De

☐ 3. Document ID: WO 9934639 A2, FI 9704532 A, AU <u>9915652</u> A, EP 1038241 A2, FI 109073 B1, US 6587899 B1

L1: Entry 3 of 4

File: DWPI

Jul 8, 1999

DERWENT-ACC-NO: 1999-405622

DERWENT-WEEK: 200347

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TITLE: Selective data transmission method for telecommunications system such as

telephone exchange

INVENTOR: JAERVI, J; POIKOLAINEN, K; JARVI, J

PRIORITY-DATA: 1997FI-0004532 (December 16, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9934639 A2	July 8, 1999	E	015	H04Q011/04
FI 9704532 A	June 17, 1999		000	H04Q000/00
AU 9915652 A	July 19, 1999		000	H04Q011/04
EP 1038241 A2	September 27, 2000	E	000	G06F017/30
FI 109073 B1	May 15, 2002		000	H04Q011/04
US 6587899 B1	July 1, 2003		000	G06F013/14

INT-CL (IPC): $\underline{G06}$ \underline{F} $\underline{13}/\underline{14}$; $\underline{G06}$ \underline{F} $\underline{13}/\underline{36}$; $\underline{G06}$ \underline{F} $\underline{13}/\underline{364}$; $\underline{G06}$ \underline{F} $\underline{13}/\underline{38}$; $\underline{G06}$ \underline{F} $\underline{17}/\underline{30}$; $\underline{H04}$ \underline{Q} $\underline{0}/\underline{00}$; $\underline{H04}$ \underline{Q} $\underline{3}/\underline{545}$; $\underline{H04}$ \underline{Q} $\underline{11}/\underline{04}$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw, De
7										

□ 4. Document ID: JP 2000512944 X, WO 9915652 A1, AU 9890963 A, EP 1018551 A1,

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Hosted by NCSC US	Mirror sites:	Australia	Bolivia	Brazil new	Canada	China	Korea	Switz	erland	Taiwan
Search	Swiss-Prot/	ΓrEMBL		for megs	in		Go	Cle	ear	

Search in Swiss-Prot and TrEMBL for: megsin

Swiss-Prot Release 45.5 of 04-Jan-2005 TrEMBL Release 28.5 of 04-Jan-2005

- Number of sequences found in <u>Swiss-Prot</u>₍₂₎ and <u>TrEMBL</u>₍₁₎: 3
- Note that the selected sequences can be saved to a file to be later retrieved; to do so, go to the bottom of this page.
- For more directed searches, you can use the Sequence Retrieval System SRS.

Search in Swiss-Prot: There are matches to 2 out of 167089 entries

<u>SPB7_HUMAN</u> (**O75635**)

Megsin (TP55) (Serpin B7). {GENE: Name=SERPINB7} - Homo sapiens (Human)

SPB7 MOUSE (Q9D695)

Megsin (Serpin B7). {GENE: Name=Serpinb7} - Mus musculus (Mouse)

Search in TrEMBL: There are matches to 1 out of 1560235 entries

O920J5

Megsin {GENE:Name=Serpinb7} - Rattus norvegicus (Rat)

New Search

in Swiss-Prot/TrEMBL by AC, ID, description, gene name, organism

Please do NOT use any boolean operators (and, or, etc.)

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Q6P3F8

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Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

Entry name

Q6P3F8

Primary accession number

O6P3F8

Secondary accession numbers

None

Entered in TrEMBL in

Release 27, July 2004

Sequence was last modified in

Release 27, July 2004

Annotations were last modified in

Release 27, July 2004

Name and origin of the protein

Protein name

Serine (Or cysteine) proteinase inhibitor, clade B, member 7

Synonyms

None

Gene name

Name: Serpinb7

From

Mus musculus (Mouse) [TaxID: 10090]

Taxonomy

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata, Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

Mus.

References

[1] NUCLEOTIDE SEQUENCE.

TISSUE=Jaw and Limb;

DOI=10.1073/pnas.242603899;MEDLINE=22388257;PubMed=12477932 [NCBI, ExPASy, EBI, Israel, Japan]

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.":

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

[2] NUCLEOTIDE SEQUENCE.

TISSUE=Jaw and Limb;

Strausberg R.;

Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.

Comments

• FUNCTION: Component of the nuclear pore complex, a complex required for the trafficking

across the nuclear membrane (By similarity).

- SUBCELLULAR LOCATION: Central region of the nuclear pore complex, within the transporter. Localizes on both cytoplasmic and nucleoplasmic sides of the nuclear pore complex near the central gated channel (By similarity).
- **DOMAIN**: Contains FG repeats (By similarity).
- SIMILARITY: Belongs to the serpin family.

Cross-references

EMBL BC064004; AAH64004.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence]

HSSP P05121; 1A7C. [HSSP ENTRY / PDB]

GO:0004867; Molecular function: serine-type endopeptidase inhibitor activity

(inferred from electronic annotation).

GO OuickGo

view.

IPR000215; Prot inh serpin. InterPro

Graphical view of domain structure.

PF00079; Serpin; 1.

Pfam

Pfam graphical view of domain structure.

SMART SM00093; SERPIN; 1.

PROSITE PS00284; SERPIN; UNKNOWN 1.

ProDom [Domain structure / List of seq. sharing at least 1 domain]

HOVERGEN [Family / Alignment / Tree]

ProtoMap Q6P3F8. **PRESAGE** Q6P3F8. ModBase O6P3F8.

SMR Q6P3F8; 3C240272A9FB935E.

SWISS-

Get region on 2D PAGE. 2DPAGE

UniRef View cluster of proteins with at least 50% / 90% identity.

Keywords

Coiled coil; Nuclear protein; Protease inhibitor; Repeat; Serine protease inhibitor; Serpin; Transport.

Features

None

Sequence information

Length: 380 Molecular weight: 43020 CRC64: 3C240272A9FB935E [This is a checksum on the AA Da sequence

1 <u>0</u>	2 <u>0</u>	3 <u>0</u>	4 <u>0</u>	5 <u>0</u>	6 <u>0</u>
MASLAAANAE	FGFDLFREMD	SSQGNGNVFF	SSLSIFTALT	LIRLGARGDC	ARQIDKALHF
7 <u>0</u>	80	90	100	110	120
NIPSRQGNSS	NNQPGLQYQL	KRVLADINSS	HKDYELSIAT	GVFAEKVYDF	HKNYIECAEN
13 <u>0</u>	14 <u>0</u>	15 <u>0</u>	16 <u>0</u>	17 <u>0</u>	180
LYNAKVERVD	FTNDVQDTRF	KINKWIENET	HGKIKKVLGD	SSLSSSAVMV	LVNAVYFKGK
19 <u>0</u>	20 <u>0</u>	21 <u>0</u>	220	23 <u>0</u>	240
WKSAFTKTDT	LSCRFRSPTC	PGKVVNMMHQ	ERRFNLSTIQ	QPPMQVLELQ	YHGGISMYIM

4

250 ' 280 260 270 290 300 LPEDGLCEIE SKLSFQNLMD WANRRKMKSQ YVNVFLPQFK IEKNYEMTHH LKSLGLKDIF 310 320 340 330 350 DESSADLSGI ASGGRLYVSK LMHKSFIEVS EEGTEATAAT ENNIVEKQLP ESTVFRADRP Q6P3F8 in FASTA FLFVIKKNDI ILFTGKVSCP format

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ScanProsite, MotifScan



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ExPASy Home page	Site Map	Search ExPASy	Contact us	Proteomics tools	Swiss-Prot
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In case of problems, pi				@expasy.org>.	
NCBI BLAST program refealtschul S.F., Madden Lipman D.J. Gapped BLidatabase search program	T.L., Schä AST and Pa	äffer A.A., Zhar SI-BLAST: a new	generation	of protein	
± 332 ± 3 ===================================			-=======		===
Query: 15 AA Date run: 2005-01-27 1 Program: NCBI BLASTP 1 Database: EXPASY/UniPro 1,737,387 so UniProt Release 3.5 com	.5.4-Paradot ot equences;	cel [2003-06-05] 556,730,939 tot : Swiss-Prot Rel	cal letters Lease 45.5	of 04-Jan-2005: 4-Jan-2005: 150	
Taxonomic view !	NiceBlast vie	w Printable v	iew		
List of potentially ma	tching sed	quences			
Send selected sequences to	Clustal W (n	nultiple alignment)	<u> </u>	Submit Query	
☐ Include query sequence					
Db AC Descript	ion			Scor	e E-value
sp 075635 SPB7_HUMA sp Q9D695 SPB7_MOUS tr Q920J5 Megsin [S] tr Q6P3F8 Serine (C)	E Megsin Serpinb7]	(Serpin B7) [Se [Rattus norvegi	rpinb7] [Mu cus (Rat)]	s musculus 4	6 7e-05 6 7e-05
Graphical overview of	the alignm	ments			
Click here to resubmi		ery after maski	ng regions	matching PROSIT	E profiles

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( Help) (use ScanProsite for more details about PROSITE matches)
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               Matches on query sequence
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 Submission
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 SPB7_HUMAN
SPB7_MOUSE
Q920J5
Q6P3F8
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 Submission
   Identity
                      25
                                         100%
                            58
                                   75
Alignments
 sp 075635
                  Megsin (TP55) (Serpin B7) [SERPINB7] [Homo sapiens
                                                                                      380
     SPB7 HUMAN (Human)]
                                                                                     AΑ
                                                                                      align
  Score = 54.5 bits (121), Expect = 2e-07
  Identities = 15/15 (100%), Positives = 15/15 (100%)
 Query: 1 FREMDDNQGNGNVFF 15
             FREMDDNQGNGNVFF
 Sbjct: 16 FREMDDNQGNGNVFF 30
 sp Q9D695
                  Megsin (Serpin B7) [Serpinb7] [Mus musculus (Mouse)] 380 AA
     SPB7 MOUSE
                                                                              align
  Score = 46.0 \text{ bits } (101), \text{ Expect} = 7e-05
  Identities = 13/15 (86%), Positives = 13/15 (86%)
 Query: 1 FREMDDNQGNGNVFF 15
            FREMD QGNGNVFF
 Sbjct: 16 FREMDSSQGNGNVFF 30
 tr <u>Q920J5</u> Megsin [Serpinb7] [Rattus norvegicus (Rat)] 380 AA
                                                                align
  Score = 46.0 \text{ bits } (101), \text{ Expect} = 7e-05
  Identities = 13/15 (86%), Positives = 13/15 (86%)
 Query: 1 FREMDDNQGNGNVFF 15
```

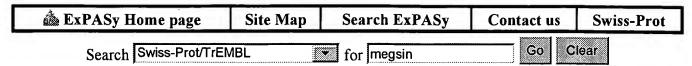
FREMD QGNGNVFF

Sbjct: 16 FREMDSSQGNGNVFF 30

align

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tr Q6P3F8 Serine (Or cysteine) proteinase inhibitor, clade B, member 7 380 AA
             [Serpinb7] [Mus musculus (Mouse)]
  Score = 46.0 \text{ bits (101)}, Expect = 7e-05
  Identities = 13/15 (86%), Positives = 13/15 (86%)
  Query: 1 FREMDDNQGNGNVFF 15
            FREMD QGNGNVFF
  Sbjct: 16 FREMDSSQGNGNVFF 30
Database: EXPASY/UniProt
    Posted date: Jan 3, 2005 6:58 PM
  Number of letters in database: 556,730,939
  Number of sequences in database: 1,737,387
Lambda
          K
                  Η
   0.333
          0.281
                      1.80
Gapped
Lambda
          K
   0.294
          0.110
                     0.610
Matrix: PAM30
Gap Penalties: Existence: 9, Extension: 1
Number of HSP's successfully gapped in prelim test: 0
length of query: 15
length of database: 556,730,939
effective HSP length: 6
effective length of query: 9
effective length of database: 546,306,617
effective search space: 4916759553
effective search space used: 4916759553
T: 16
A: 40
X1: 15 ( 7.2 bits)
X2: 35 (14.8 bits)
X3: 58 (24.6 bits)
S1: 41 (21.6 bits)
S2: 61 (29.1 bits)
Wallclock time: 118 seconds
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Entry information

Entry name

Q920J5

Primary accession number

Q920J5

Secondary accession numbers

None

Entered in TrEMBL in

Release 19, December 2001

Sequence was last modified in

Release 19, December 2001

Annotations were last modified in

Release 26, March 2004

Name and origin of the protein

Protein name

Megsin

Synonyms

None

Gene name

Name: Serpinb7

From

Rattus norvegicus (Rat) [TaxID: 10116]

Taxonomy

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

Rattus.

References

[1] NUCLEOTIDE SEQUENCE:

MEDLINE=21368006; PubMed=11473647 [NCBI, ExPASy, EBI, Israel, Japan]

Nangaku M., Miyata T., Suzuki D., Umezono T., Hashimoto T., Wada T., Yagi M., Nagano N., Inagi R., Kurokawa K.;

"Cloning of rodent megsin revealed its up-regulation in mesangioproliferative nephritis."; Kidney Int. 60:641-652(2001).

Comments

- FUNCTION: Component of the nuclear pore complex, a complex required for the trafficking across the nuclear membrane (By similarity).
- SUBCELLULAR LOCATION: Central region of the nuclear pore complex, within the transporter. Localizes on both cytoplasmic and nucleoplasmic sides of the nuclear pore complex near the central gated channel (By similarity).
- DOMAIN: Contains FG repeats (By similarity).
- SIMILARITY: Belongs to the serpin family.

Cross-references

EMBL AF105329; AAL16769.1; -.[EMBL / GenBank / DDBJ] [CoDingSequence] **HSSP** P05121; 1A7C. [HSSP ENTRY / PDB] ENSRNOG00000002555; Rattus norvegicus. [Contig view] Ensembl **RGD** 71063; Serpinb7. GeneLynx Serpinb7; Rattus norvegicus. GO:0004867; Molecular function: serine-type endopeptidase inhibitor activity (inferred from electronic annotation). GO QuickGo view. IPR000215; Prot inh serpin. InterPro Graphical view of domain structure. PF00079: Serpin: 1. Pfam Pfam graphical view of domain structure. SM00093; SERPIN; 1. **SMART PROSITE** PS00284; SERPIN; UNKNOWN 1. [Domain structure / List of seq. sharing at least 1 domain] **ProDom HOVERGEN** [Family / Alignment / Tree] **ProtoMap** Q920J5. **PRESAGE** Q920J5. ModBase Q920J5. **SMR** Q920J5; D8076CA8EE2C2FBC. SWISS-Get region on 2D PAGE. 2DPAGE UniRef View cluster of proteins with at least 50% / 90% identity. Keywords Coiled coil; Nuclear protein; Protease inhibitor; Repeat; Serine protease inhibitor; Serpin; Transport. **Features** None Sequence information Molecular weight: 42820 CRC64: D8076CA8EE2C2FBC [This is a checksum on the Length: 380 AA Da sequence] 20 30 MASLAAANAE FGFDLFREMD SSQGNGNVFF SSLSIFTALS LIRLGARGDC ARQIDKALHF 70 80 90 100 110 ISPSRQGNSS NSQLGLQYQL KRVLADINSS HKDYELSIAN GVFAEKVFDF HKSYMECAEN 140 150 160 LYNAKVERVD FTNDIQETRF KINKWIENET HGKIKKVLGD SSLSSSAVMV LVNAVYFKGK 200 210 220 230 WKSAFTKSDT LSCHFRSPSG PGKAVNMMHQ ERRFNLSTIQ EPPMQILELQ YHGGISMYIM

260

270

330

LPEDDLSEIE SKLSFQNLMD WTNSRKMKSQ YVNVFLPQFK IEKDYEMRSH LKSVGLEDIF

VESRADLSGI ASGGRLYVSK LMHKSLIEVS EEGTEATAAT ESNIVEKLLP ESTVFRADRP

280

340

290

350

300

37<u>0</u> 38<u>0</u> FLFVIRKNGI ILFTGKVSCP

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BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)



ScanProsite, MotifScan



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Swiss-

Prot:

Q9D695

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Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

Entry name

SPB7 MOUSE

Primary accession number

Q9D695

Secondary accession numbers

None

Entered in Swiss-Prot in

Release 42, October 2003

Sequence was last modified in

Release 42, October 2003

Annotations were last modified in

Release 44, July 2004

Name and origin of the protein

Protein name

Megsin

Synonym

Serpin B7

Gene name

Name: Serpinb7

From

Mus musculus (Mouse) [TaxID: 10090]

Taxonomy

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

Mus.

References

[1] NUCLEOTIDE SEQUENCE.

DOI=10.1046/j.1523-1755.2001.060002641.x;MEDLINE=21368006;PubMed=11473647 [NCBI, ExPASy, EBI, Israel, Japan]

Nangaku M., Miyata T., Suzuki D., Umezono T., Hashimoto T., Wada T., Yagi M., Nagano N., Inagi R., Kurokawa K.;

"Cloning of rodent megsin revealed its up-regulation in mesangioproliferative nephritis."; Kidney Int. 60:641-652(2001).

[2] NUCLEOTIDE SEQUENCE.

STRAIN=C57BL/6J;

TISSUE=Skin;

DOI=10.1038/nature01266;MEDLINE=22354683;PubMed=12466851 [NCBI, ExPASy, EBI, Israel, Japan]

Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S., Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H., Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach

C., Gojobori T., Baldarelli R., Hayashizaki Y.;

"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs."; Nature 420:563-573(2002).

Comments

- FUNCTION: Might function as an inhibitor of Lys-specific proteases. Might influence the maturation of megakaryocytes via its action as a serpin (By similarity).
- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
- SIMILARITY: Belongs to the serpin family. Ov-serpin subfamily.

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InterPro

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Cross-references

EMBL AF105328; AAL16768.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence] AK014524; BAB29410.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence]

HSSP P05121, 1A7C. [HSSP ENTRY / PDB]

MGD MGI:2151053; Serpinb7.
CleanEx MGI:2151053; Serpinb7.
GeneLynx Serpinb7; Mus musculus.
SOURCE Serpinb7; Mus musculus.

IPR000215; Prot inh serpin.

Graphical view of domain structure.

Pfam PF00079; Serpin; 1.

Pfam graphical view of domain structure.

SMART SM00093; SERPIN; 1. PROSITE PS00284; SERPIN; 1.

ProDom [Domain structure / List of seq. sharing at least 1 domain]

HOVERGEN [Family / Alignment / Tree]

BLOCKS Q9D695.
ProtoNet Q9D695.
ProtoMap Q9D695.
PRESAGE Q9D695.
DIP Q9D695.
ModBase Q9D695.

SMR Q9D695; C9240272BCFB9CF4.

SWISS-2DPAGE Get region on 2D PAGE.

UniRef View cluster of proteins with at least 50% / 90% identity.

Keywords

Serine protease inhibitor; Serpin.

Features



Feature table viewer

Key From To Length Description

SITE 347 348 2 Reactive bond (By similarity).

Sequence information

Length: 380 Molecular weight: 43050 CRC64: C9240272BCFB9CF4 [This is a checksum on the $\mathbf{A}\mathbf{A}$ Da sequence] 10 20 30 MASLAAANAE FGFDLFREMD SSQGNGNVFF SSLSIFTALT LIRLGARGDC ARQIDKALHF 80 90 100 110 NIPSRQGNSS NNQPGLQYQL KRVLADINSS HKDYELSIAT GVFAEKVYDF HKNYIECAEN 140 150 160 170 LYNAKVERVD FTNDVQDTRF KINKWIENET HGKIKKVLGD SSLSSSAVMV LVNAVYFKGK 210 220 WKSAFTKTDT LSCRFRSPTC PGKVVNMMHQ ERRFNLSTIQ QPPMQVLELQ YHGGISMYIM 270 290 280 300 LPEDGLCEIE SKLSFQNLMD WTNRRKMKSQ YVNVFLPQFK IEKNYEMTHH LKSLGLKDIF 340 330 350 DESSADLSGI ASGGRLYVSK LMHKSFIEVS EEGTEATAAT ENNIVEKQLP ESTVFRADRP Q9D695 in FASTA FLFVIKKNDI ILFTGKVSCP format

View entry in original Swiss-Prot format View entry in raw text format (no links) Report form for errors/updates in this Swiss-Prot entry

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: ProtParam, ProtScale, Compute pI/Mw, PeptideMass, PeptideCutter, Dotlet (Java)



ScanProsite, MotifScan



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Welco	ome to the	e SIB BLAST Netv	vork Servic	e				
If results of this search are reported or published, please mention that the computation was performed at the SIB using the BLAST network service. The SIB BLAST network service uses a server developed at SIB and the NCBI BLAST 2 software.								
In case of problems, position is not				@expasy.org>.				
NCBI BLAST program reformation of the Altschul S.F., Madden to Lipman D.J. Gapped BL database search program	T.L., Schä AST and PS	iffer A.A., Zhar SI-BLAST: a new	generation	of protein				
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Query: 15 AA Date run: 2005-01-27 19 Program: NCBI BLASTP 1 Database: EXPASY/UniPro 1,737,387 so UniProt Release 3.5 com	.5.4-Parac ot equences;	cel [2003-06-05] 556,730,939 tot : Swiss-Prot Rel	cal letters Lease 45.5					
Taxonomic view	ViceBlast vie	w Printable v	iew					
List of potentially ma	tching sec	quences						
Send selected sequences to Select up to	Clustal W (n	nultiple alignment)		Submit Query				
☐ Include query sequence								
Db AC Descript	ion			Score	E-value			
□ sp 075635 SPB7_HUMA □ sp Q9D695 SPB7_MOUS □ tr Q920J5 Megsin [S □ tr Q6P3F8 Serine (O	E Megsin Serpinb7]	(Serpin B7) [Se [Rattus norvegi	rpinb7] [Mu cus (Rat)]	s musculus 29	6.6 6.6			
Graphical overview of the alignments								
Click here to resubmi		ery after maski	ng regions	matching PROSITE	${f E}$ profiles			

(Help) (use ScanProsite for more details about PROSITE matches) Profile hits Pfan hits Matches on query sequence Hat Submission 1 SPB7_HUMAN SPB7_MOUSE Q920J5 80000000 20000000 Q6P3F8 Submission Identity 100% Alignments sp 075635 380 Megsin (TP55) (Serpin B7) [SERPINB7] [Homo sapiens SPB7_HUMAN (Human)] AΑ align Score = 48.6 bits (107), Expect = 1e-05Identities = 15/15 (100%), Positives = 15/15 (100%) Query: 1 SQSGLQSQLKRVFSD 15 SQSGLQSQLKRVFSD Sbjct: 72 SQSGLQSQLKRVFSD 86 sp Q9D695 Megsin (Serpin B7) [Serpinb7] [Mus musculus (Mouse)] 380 AA SPB7_MOUSE <u>align</u> Score = 29.5 bits (62), Expect = 6.6Identities = 10/14 (71%), Positives = 10/14 (71%) Query: 2 QSGLQSQLKRVFSD 15 Q GLQ QLKRV D Sbjct: 73 QPGLQYQLKRVLAD 86 tr <u>Q920J5</u> Megsin [Serpinb7] [Rattus norvegicus (Rat)] 380 AA <u>align</u> Score = 29.5 bits (62), Expect = 6.6Identities = 11/15 (73%), Positives = 11/15 (73%) Query: 1 SQSGLQSQLKRVFSD 15

SQ GLQ QLKRV D

align

Sbjct: 72 SQLGLQYQLKRVLAD 86 tr <u>Q6P3F8</u> Serine (Or cysteine) proteinase inhibitor, clade B, member 7 380 AA [Serpinb7] [Mus musculus (Mouse)] Score = 29.5 bits (62), Expect = 6.6Identities = 10/14 (71%), Positives = 10/14 (71%) Query: 2 QSGLQSQLKRVFSD 15 Q GLQ QLKRV D Sbjct: 73 QPGLQYQLKRVLAD 86 Database: EXPASY/UniProt Posted date: Jan 3, 2005 6:58 PM Number of letters in database: 556,730,939 Number of sequences in database: 1,737,387 Lambda K 0.347 0.287 1.65 Gapped Lambda K Η 0.294 0.110 0.610 Matrix: PAM30 Gap Penalties: Existence: 9, Extension: 1 Number of HSP's successfully gapped in prelim test: 0 length of query: 15 length of database: 556,730,939 effective HSP length: 6 effective length of query: 9 effective length of database: 546,306,617 effective search space: 4916759553 effective search space used: 4916759553 T: 16 A: 40 X1: 14 (7.0 bits) X2: 35 (14.8 bits) X3: 58 (24.6 bits) S1: 40 (21.8 bits) S2: 61 (29.1 bits) Wallclock time: 127 seconds

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